

Appendix table 4-47.

**Industrial R&D performed abroad by foreign affiliates of U.S. parent companies, by NAICS industrial classification: 1997–99**

Industry/sector	NAICS code	1997	1998	1999
Millions of current U.S. dollars				
<b>Total</b> .....		13,107	16,008	16,765
<b>Manufacturing</b> .....	31–33	—	—	12,354
Food manufacturing .....	311	104	131	87
Petroleum and coal products manufacturing .....	324	63	20	D
Chemical manufacturing .....	325	2,609	2,635	3,243
Pharmaceuticals .....	3254	2,125	1,591	2,832
Other .....	325 minus 3254	484	1,044	411
Plastics and rubber products manufacturing .....	326	186	188	172
Nonmetallic mineral product manufacturing .....	327	19	47	40
Primary metal manufacturing .....	331	10	23	7
Fabricated metal product manufacturing .....	332	94	138	75
Machinery manufacturing .....	333	609	741	707
Computer and electronic product manufacturing .....	334	1,884	1,585	1,902
Computer and peripheral equipment .....	3341	343	424	289
Communications equipment .....	3342	346	478	D
Semiconductor and other electronic components .....	3344	937	D	302
Nav., measuring, electromed, control inst. ....	3345	D	375	1,112
Electrical equipment, appliance, and component manufacturing .....	335	221	109	433
Transportation equipment manufacturing .....	336	3,203	4,273	3,933
Other manufacturing .....	31–33 minus (311, 324–327, 331–336)	—	—	D
<b>Information</b> .....	51	709	1,322	1,379
<b>Professional, scientific, and technical services</b> .....	54	164	384	523
Architectural, engineering, and related services .....	5413	11	D	D
Computer systems design and related services .....	5415	63	105	146
Scientific R&D services .....	5417	67	258	287
Other .....	54 minus (5413, 5415, 5417)	23	D	D
<b>All other industries</b> .....	total minus (31–33, 51, 54)	—	—	2,509
Millions of constant 1996 U.S. dollars				
<b>Total</b> .....		12,856	15,509	16,002
<b>Manufacturing</b> .....	31–33	—	—	11,792
Food manufacturing .....	311	102	127	83
Petroleum and coal products manufacturing .....	324	62	19	D
Chemical manufacturing .....	325	2,559	2,553	3,095
Pharmaceuticals .....	3254	2,084	1,541	2,703
Other .....	325 minus 3254	475	1,011	392
Plastics and rubber products manufacturing .....	326	182	182	164
Nonmetallic mineral product manufacturing .....	327	19	46	38
Primary metal manufacturing .....	331	10	22	7
Fabricated metal product manufacturing .....	332	92	134	72
Machinery manufacturing .....	333	597	718	675
Computer and electronic product manufacturing .....	334	1,848	1,536	1,815
Computer and peripheral equipment ...	3341	336	411	276
Communications equipment .....	3342	339	463	D
Semiconductor and other electronic components .....	3344	919	D	288
Nav., Measuring, electromed, control inst. ....	3345	D	363	1,061

See explanatory notes, if any, and SOURCE at end of table

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**Industrial R&D performed abroad by foreign affiliates of U.S. parent companies, by NAICS industrial classification: 1997–99**

Industry/sector	NAICS code	1997	1998	1999
Millions of constant 1996 U.S. dollars (continued)				
Electrical equipment, appliance, and component manufacturing .....	335	217	106	413
Transportation equipment manufacturing .....	336	3,142	4,140	3,754
Other manufacturing .....	31–33 minus (311, 324–327, 331–336)	—	—	D
<b>Information</b> .....	51	695	1,281	1,316
<b>Professional, scientific, and technical services</b> .....	54	161	372	499
Architectural, engineering, and related services .....	5413	11	D	D
Computer systems design and related services .....	5415	62	102	139
Scientific R&D services .....	5417	66	250	274
Other .....	54 minus (5413, 5415, 5417)	23	D	D
<b>All other industries</b> .....	total minus (31–33, 51, 54)	—	—	2,395

NAICS = North American Industry Classification System; D = withheld to avoid disclosing operations of individual companies; — = data not tabulated under NAICS code

NOTES: Data are for industrial R&D performed outside the United States by a company's foreign subsidiaries or other foreign organizations funded from all sources except the Federal government. Constant dollar figures were calculated using calendar year gross domestic product deflators (1996 = 100). See appendix table 4-1. Starting with the 1999 survey, estimates are based on NAICS. In prior years, estimates were based on the Standard Industrial Classification System (SIC). For this table, companies in the 1997 and 1998 surveys were assigned NAICS industry codes based on their SIC industry codes. Consequently, the estimates for 1997 and 1998 in this table are not necessarily representative of the NAICS categories of industries in those years. They are included for comparison purposes only.

SOURCE: National Science Foundation, Division of Science Resources Studies (NSF/SRS), *Research and Development in Industry: 1999, Early Release Tables* (Arlington, VA, 2001).